# NUCLEAR DIVISION NEWS

a newspaper for employees of the nuclear division • union carbide corporation

Vol 10/No. 21 November 1, 1979

## ORNL Steam Plant converted to burn coal



Estimated storage capacity of the new ORNL coal yard is 28,000 tons.

The first deliveries of coal to the newly converted ORNL Steam Plant have taken place this month. Under a \$14.5 million line-item construction project, now nearing completion, four of the plant's five gas/oil-fired boilers, with a combined capacity of some 300,000 pounds of steam per hour, have been converted to burn coal. Four of the units will have the capability to burn either gas, oil or coal, although the fifth boiler, which was designed specifically for gas and oil, cannot be converted.

The conversion project, authorized by Congress in 1977, is part of the overall Department of Energy effort to reduce U.S. dependence on gas and oil for steam generation. Three of the boilers in operation since the central steam plant was constructed in 1947 originally were coal-fired. In 1950, however, they were converted to burn gas and oil, and all coal-handling equipment was

Alterations and additions under the current project have included installation of stokers, grates, electrostatic precipitators, draft fans and coal- and ash-handling equipment. The project also has included construction of a coal yard and control room, modifications to the existing stack and upgrading of electrical systems to handle the increased power loads. Under the project, steam lines also are being extended to the shops, stores and warehouses in the 7000 area, the only part of the Laboratory complex not now linked to the central heating system.

At full capacity and at current steam demands at 0°F, the plant will burn 10 tons of coal per hour. Estimated storage capacity of the new yard is 28,000 tons.

## Corporate world of Union Carbide. . .

THIRD QUARTER SALES and earnings of Union Carbide have been reported as substantially higher than those of the 1978 third quarter. Net income of \$149.4 million is 85 percent higher than the \$80.7 million reported last year.

Per share earnings were \$2.27, compared with \$1.25 per share for the 1978 period.

Earnings for the first nine months of 1979 were a record \$424.5 million, or \$6.48 per share, an increase of 59 percent over last year's earnings of \$266.4 million, or \$4.12 per share, for the same period.

Worldwide sales for the quarter were \$2.33 billion, up 18 percent over the \$1.98 billion sales reported for the 1978 third quarter. For the first nine months, worldwide sales were \$6.78 billion, 17 percent above sales of \$5.78 billion for the same period last

## 'Spot Bid' Sale

A "spot bid" sale on used office equipment and vehicles is now in progress. Inspection may be made from 8:10 a.m. to 4:10 p.m. through November 13, including Saturdays.

Bids will be opened at 9 a.m. November 14 at the sales office. The materials are at the Oak Ridge Gaseous Diffusion Plant's powerhouse area, Building K-722, located off State Route 58, Oak Ridge.

Additional information may be obtained from D. R. McCammon, telephone 576-1451.

"We're pleased," said William S. Sneath, Union Carbide's chairman and chief executive officer, "that a number of our businesses, particularly carbon products, polyolefins and electronics, showed such sales strength during the quarter. However, some signs of the forecasted general business slowdown were evident in the quarter. Sales volume of certain product lines related to the automotive and steel industries began declining toward the end of the third quarter.'

Domestic sales for the quarter were \$1.61 billion, less than one percent above those for the 1979 second quarter, but 21 percent above third quarter 1978 sales of \$1.33 billion.

#### In this issue. . .

If you are interested in taxidermy, you might want to give Bill and Jim Adams a hand. They have a rattlesnake in their freezer awaiting stuffing. Their interest in the art of preserving animals are highlighted in a story on page 3.

#### Other features:

Medicine Chest	Page 2
Energy Advisor	
Promotions	
Diamond Find	Page 7
Question Box	Page 8



A front-end loader dumps the newly arrived coal through a grate into a crusher. The 12-yard bucket of the loader can lift 8 to 10 tons of coal per load.

Additional pictures on Page 4



Medicine Chest

## How many X-rays are too many?

by T. A. Lincoln, M.D.

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 21, Y-12, or call the news editor in your plant, and give him or her your question on the

QUESTION: "Is it safe to receive more than five or six dental X-rays in a three-month period? If one is receiving dental X-rays and can expect more in the near future, should one have a chest X-ray or any additional X-rays or should they be postponed at this time? Is it still considered safe to receive a chest Xray every year or two? (I think this is

discouraged.)"
ANSWER: "Safe" is a relative term. Safe from what? In life, we make constant benefit-risk assessments. We know that driving a car could result in an accident that might kill or maim us for life, yet we do it because that is the only way that we have to get to work, and we have to support our families. No more dental X-rays should be taken than are necessary to learn what the problem is. If that knowledge can be gained by just a careful clinical examination, or if the X-ray information adds only a small increment, then the X-ray should not be taken. Many times, however, dental X-rays are necessary.

Sometimes, X-rays may be taken for "completeness," for documenting the need for a procedure and possibly even to impress the patient about "up-to-date" dentistry. Rarely, they may be done to add to the income of

## **NUCLEAR** DIVISION NEWS

UNION CARBIDE CORPORATION **NUCLEAR DIVISION** Post Office Box Y Oak Ridge, Tenn. 37830

EDITOR (Y-12) James A. Young, 574-1643

ORNL

Cindy Ross Lundy, 574-4163

**ORGDP** 

Kathy Coleman, 574-9218

**PADUCAH** 

Darlene Mazzone, Bell 208



Member, INTERNATIONAL ASSOCIATION OF BUSINESS COMMUNICATORS

the dentist. Some X-rays may be taken because dentists are not impressed by their potential for doing harm. All these reasons are becoming less accepted as dentists become more aware of the need for avoiding unnecessary exposure.

The potential for harm is extremely small, but it may not be zero. Good, sound clinical judgment is needed. That requires a good dentist who is fully informed about the potential harm from X-rays and who can make a conservative risk versus benefit evaluation in each case.

There are many dental procedures that simply cannot be done without X-rays. If one wants to preserve one's teeth, getting an adequate diagnosis is necessary for proper care.

Dental X-rays and chest X-rays are not related. The overlap of tissue being exposed is usually minimal to modest. Good dentists and good radiologists use collimation and filtration so, as much as is possible, the tissue that needs to be examined is irradiated. There is no reason to postpone a chest X-ray because necessary dental X-rays are also being taken.

The value of routine chest X-rays has come under attack in recent years. Although occasional asymptomatic chest and heart diseases are found with a routine chest X-ray, the principal justification for these X-rays is the detection of early tuberculosis or lung cancer. In many parts of the country, the prevalence of tuberculosis is now so low that routine chest X-rays are hard to justify. They can be confined to people who have a strongly positive tuberculin skin test or who have recently converted from a negative to a positive test. People who have heavy potential exposure to tuberculosis may need them.

Lung cancer detection is a much more difficult problem. Most lung cancers found on routine chest X-rays are not curable. By the time the cancer grows large enough to be seen on the X-ray, it is no longer curable by surgery. An operation may prolong life and many smokers feel that an effort should be made to detect even an incurable cancer. A small percentage of cases are curable, and most patients feel that their cases will be part of that small group.

The value of the periodic chest Xray has been oversold, and decisions about who should receive a routine X-ray are now being made more carefully.

## retirements. . .

(Editor's Note: During the next couple of months there will be scores of Nuclear Division veterans retiring. Rather than attempt to get them in the last issue of the year, they are being spaced out. Many of those shown below will be leaving December 31.



Roxie L. Brown ORGDP Maintenance 35 years service



William H. Bullins ORGDP Operations 35 years service



Frances G. Campbell ORGDP **Employee Relations** 33 years service



Carl L. Hatmaker ORGDP Operations 34 years service



Andrew E. Heflin ORGDP Maintenance 35 years service



Walter H. Henley ORGDP Separation Systems 34 years service



Alfred C. Hoskins ORGDP Maintenance 33 years service



William J. Kennedy ORGDP Operations 35 years service



Everette A. McCollum ORGDP Maintenance 35 years service



William D. McCluen ORGDP Operations 33 years service



Sidney A. Speckter ORGDP Maintenance 35 years service



Katherine B. Terry ORGDP Finance, Materials & Services 34 years service



John T. Roylston ORGDP Operations 33 years service



Fred B. Tredinnick ORGDP **Technical Services** 40 years service



William L. White ORGDP Operations 33 years service



Kenneth W. Woody ORGDP **Technical Services** 34 years service

#### A different drummer

## Anybody for stuffing a rattlesnake?...

(Editor's Note: Bill and Jim Adams pursue an unusual hobby. . . taxidermy. Bill, in Y-12's Development Division, and his brother, Jim, ORGDP Maintenance foreman, pursue their joint adventures from their Powell homes. Jim volunteered to tell his own story.)

#### By Jim Adams

We became interested in taxidermy as a hobby almost 12 years ago, starting to mount our own deer heads. Our first attempts were frustrating and funny. One of the first deer we mounted had a "smile" on its face and we ruined a set of horns by using improper methods. Fortunately the two deer heads were our own and a close friend's (or exfriend now!)

It was evident we needed help and we sought it from some local taxidermists. They, being in the business commercially, turned us down for obvious reasons. Then we heard of a friend of ours who was "into" taxidermy and he proved very helpful. After his initial help, we were getting satisfactory results immediately.

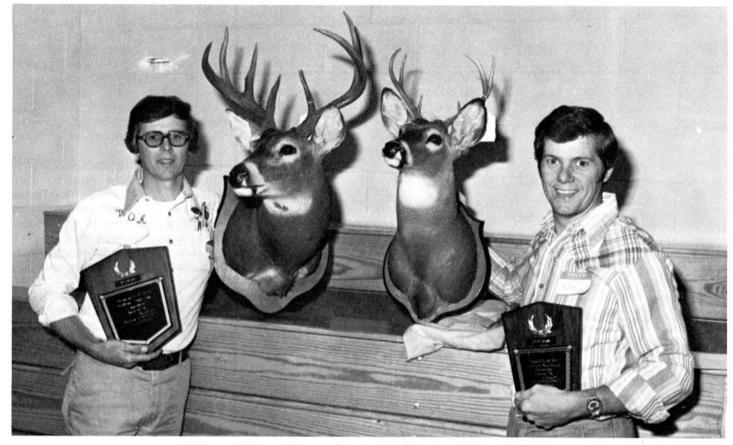
"Fish mounting posed as many problems as deer heads"

We decided to learn fish mounting next since we felt self-confident about deer mounting. We ran into many problems with fish, some of them as funny as our deer experiences, and decided again to seek help. We attended a fish mounting and painting seminar in Poplar Bluff, Mo., in 1975. This proved to be a giant step in the right direction. Instructions received there were outstanding and we became aware of the National Taxidermy Association, taxidermy trade magazines and other seminars throughout the country.

The next seminar we attended was held at Piedmont Technical Institute, Roxboro, N.C., in 1977. Some of the country's leading taxidermists conducted classes in all phases of taxidermy, using the latest methods and products. (You can learn more in

#### TO MOUNT A FISH

- Skin the hide by making an incision on one side of the fish.
- Wash the fish in soapy cold water.
- Place the fish in a chemical compound for a week and, if weather permits, lay the fish out in the sun to dry slowly.
- Our wives help to measure the fish, and sew a bag filled with balsa wood sawdust in order to stuff the fish. Put the bag inside the fish and stitch up the incision.
- Skin has to be sanded lightly. A color chart is used to paint the
- fish as close to its original color as
- Air brushes are used to blend in the colors.



Bill and Jim Adams show trophies and handiwork

a weekend there than in years of trial and error.)

At this seminar was competition which inspired us very much. We were eager to try the methods we learned and our work improved magically. The following year we returned to Roxboro with some of our work to enter in the competition. We entered two four-inch long bream, mounted on black velvet and framed in barnwood, as well as an eight-point buck. Imagine our surprise when we took first place in both fish and big game heads, with over 200 taxidermists from 18 states competing! This year we entered again and placed second and third in big game heads over 290 other taxidermists from 24 states. It was good to know we had won awards for our work in two consecutive years. Our ultimate goal is to achieve recognition in all phases of taxidermy.

"Imagine our surprise when we took first place in big game and fish competition"

The art is very interesting due to the many sizes and shapes of things you are called on to mount. The largest fish we have mounted is a 44-pound rock and the smallest a two-inch bream. Some of the different fish we have mounted include dolphin, barracuda, king mackeral, shark, plus just about every species of fresh water fish known. Our big game includes antelope, mule and whitetail deer. An unusual mount we completed last year was a solid black raccoon.

We plan to put emphasis on small game and birds in the coming years. This is the area we have the least experience in.

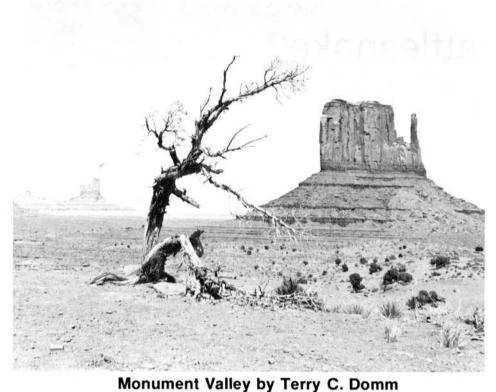
We have a rattlesnake in our freezer now, awaiting mounting. I keep waiting for Bill to do it and he keeps waiting for me to do it!



#### SECRETS OF MOUNTING A DEER

- Setting the nose, eyes and the mouth as well as shaping the ears just right are the most important factors of a beautiful deer mount.
- "Most people set the eyes wrong-have them looking
- straight out instead of down the nose.
- "We've made our share of mistakes. We once had a 'smiling' deer and one whose mouth would pop open!"





Camera Club plans Salon

The Carbide Camera Club Annual Salon will be presented from November 11 to December 8 at the Oak Ridge Community Art Center.

This year's Salon will feature three divisions: black-and-white prints, color prints and color slides. Each division will contain the following six categories: portraits, pictorials, nature-animate, nature-inanimate, still life and open.

A narrated presentation of the top color slide entries will also be included.

Salon visitors will be asked to vote for their favorite photograph, and a special "Viewers' Choice" ribbon will be awarded to the winning print or slide. Area photographers Harley Ferguson, Gordon Hodge and Ann Powers Bouldin (prints), and Ron Warwick, Ward Bandy and Michael Coster (slides) will serve as judges.

The Salon will be open during regular Art Center hours and also from 7 to 9 p.m. weekdays and from 2 to 5 p.m. Saturdays and Sundays.

### Patent granted. . .

Henry Inouye and Chain T. Liu, both of ORNL, for "Ductile Long Range Ordered Alloys with High Critical Ordering Temperature and Wrought Articles Fabricated Therefrom." Promoted in Maintenance

Three promotions have been announced in Y-12's Maintenance Division. Thomas E. Copeland, Robert P. Galyon and Paul Richard Goins are new electrical supervisors.

Copeland, a native of Knoxville, attended the University of Tennessee and the Tennessee Institute of Electronics. He worked with Dempster Brothers, East Tennessee Packing Company and Johnson and Galyon Construction before joining Union Carbide in 1969.

He and his wife, the former Marie Ellis, live at 2004 Franklin Lane, Knoxville. They have a son, Michael.

Galyon was born in Sevierville, and has a BS degree from the University of Tennessee. He was employed by Western Electric and served in the U.S. Navy before coming to Y-12 in 1970.

Mrs. Galyon is the former Tina A. Neff, and the couple lives at Route 2, Cherokee Drive, Seymour. They have two children, Jamie and Stephen.

Goins, a native of Middlesboro, Ky., has a BS degree from Lincoln Memorial University and is studying electrical engineering with International Correspondence Schools. He worked with Central Electric Service and Poe Electric Construction before coming to Y-12 in 1974.





Copeland

Galyon



Goins

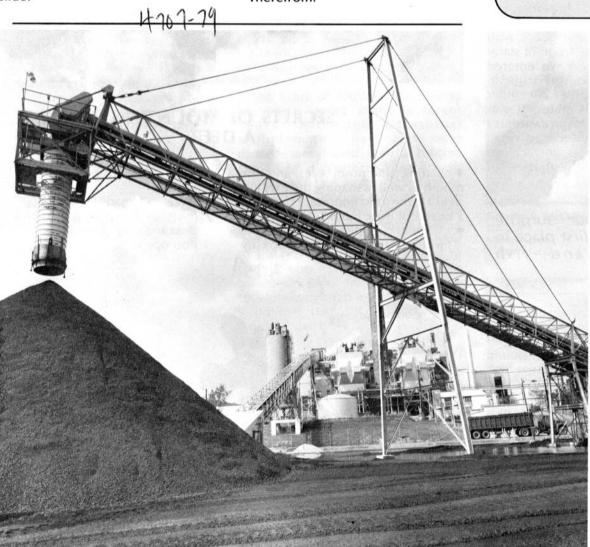
He and his wife, the former Jo Ann Parolari, live at Route 1, Green Lane, LaFollette. They have two children, Kimberly and Kelly.

## Safety Scoreboard

Time worked without a lost-time accident through October 25:

Y-12 Plant	203 Davs
ORGDP	317 Days
ORNL	1 Day
Paducah	154 Days

6,655,000 Employee-Hours 10,361,057 Employee-Hours 33,861 Employee-Hours 1,600,000 Employee-Hours



The first supply of coal is crushed and transported by conveyor to the new 28,000-ton-capacity storage yard. The ORNL steam plant is in the background.



The conveyor from the crusher can haul up to 120 tons of coal per hour. The large square block in the center is an electromagnet that picks up metal debris from the crushed coal.



**Fenstermaker** 

Auerbach

Laura J. Fenstermaker, and engineering aide in Y-12's Security, Plant Protection and Utilities Division, has been certified as an industrial fire service instructor by the state of Tennessee. She is the first person to be certified. A native of Hammond, Ind., Fenstermaker hopes to graduate from Roane State Community College in June with a 4.0 average. She joined Union Carbide in 1976 as a secretary in the Fire Department. She and her husband, Larry (a maintenance mechanic at ORGDP), live at Route 2, 211 Cedar Lane, Clinton. They have five children, Lynne, Shelley, Kim, Lisa and Jody.

**Stanley I. Auerbach,** director of ORNL's Environmental Sciences Division, has been appointed to a three-year term on the Commission of Natural Resources of the National Research Council (NRC).

The commission is one of eight major units of the NRC, the principal operating agency of the National Academy of Sciences and National Academy of Engineering. Membership is based on "demonstrated professional expertise in applying scientific and technical information to public policy issues."

**David E. Reichle,** associate director of the Environmental Sciences Division, will serve on the Board of Agriculture and Renewable Resources' Committee on Alternative Programs for Beltwide Cotton Insect Management. The board, also part of the National Research Council, will be evaluating two approaches to eradication and control of the cotton boll weevil for the Department of Agriculture.

### wanted...







#### Y-12 Plant

RIDE from Longmire Road/Carriage Drive, Clinton, to Central Portal, 7:30-4. Mary Bass, home phone Clinton 457-4619.

CAR POOL MEMBER from Cedar Bluff exit, I-40, Knoxville, to any portal, straight day. Ginny, plant phone 4-3320, home phone Knoxville 693-4755.

JOIN OR FORM CAR POOL From Farragut area, Concord, to Biology Portal, flexible straight days. Tse-Wei Wang, plant phones 4-0827 or 4-0828, home phone 966-3445.

## Bridge, anyone?

Union Carbide Retirees Association is now into bridge. They are calling all members interested in playing progression-contract bridge to show up at the Senior Center November 15.

The cards will flow from 1 to 4 p.m. Subsequent playings will be on the first and third Thursday of the winter

The committee planning the card competition consists of Charlie Kienberger, Hal Manley, Marjorie Walker, Genevive Williams, Eula Estes, Mary Groppe and Aylene Simons. Groppe, Simons, Estes and Williams will act as hostesses for the first session.

ONE CAR POOL MEMBER from Norwood area of Knoxville, to any portal, straight day. S. T. Benton, home phone Knoxville 687-9496, plant phone 4-1893.

#### ORNL

VAN POOL MEMBER from West Knoxville, Crestwood Hills, Brandon Park apartments, West Bridge apartments, San Souci apartments, Cedar Springs Shopping Center, to any portal, 8-4:30. Mike Caldwell, plant phone 4-4885, home phone Knoxville 691-1615.

JOIN OR FORM CAR POOL from East Pasadena Avenue area, Oak Ridge, to North Portal, 8-4:30 shift. Kenneth Howard, plant phone 4-6997, home phone 482-6062.

VAN POOL RIDERS from Papermill Road exit area/to any portal, 8:15-4:45 shift. Ray Pearson, plant phone 4-6849, home phone (Knoxville) 588-9949

VAN POOL RIDER from West Knoxville to East, South or West Portal, 8-4:30. Dean Treadway, plant phone 4-680, home phone 584-4879.

#### ORGDP

CAR POOL from Sweetwater area. 8 to 4:30 shift. Portals 2 or 3. Contact J. Travis Williamson at 6-2933 or 337-7509.

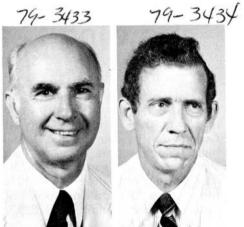
CAR POOL from Loudon to K-1007 or Portal 2 from 7:45 to 4:15 or 7:30 to 4:00. Contact Sharon Grimes at 4-8896 or 458-2313.

## Engineering promotes two

Roy C. Byrd has been promoted to an engineer in the Environmental Control Department and James G. O'Kain has been promoted in the Electrical Engineering Department.

Byrd, a native of Scott County, attended Michigan State University and the University of Tennessee. He joined Union Carbide as a draftsman in 1950, and is a member of the American Society of Certified Engineering Technicians. He and his wife, the former Betty J. King, live at 1708 Pawnee Road, Knoxville. They have four sons.

O'Kain, a native of Middle Tennessee spent most of his life in Oak Ridge. He joined Union Carbide at the Y-12 Plant in 1954, and has been certified as a senior engineering technician by ASCET. He and his wife, Sybil, live on Joyce Lane, Powell. They have two sons, Joe and Paul.



O'Kain

rd

Next issue. . .

The next issue will be dated November 15. The deadline is November 7.

## Promotions told at Paducah

The Paducah Plant has announced the promotions of Norm F. Windt to development group leader in the Technical Services Division; Cheryl D. Thomasson to supervisor in the Cascade Operations Division; Donald E. Parker to assistant general supervisor in the Power, Utilities, and Chemicals Division and Michael T. Lanier to supervisor in the Cascade Operations Division.

Windt earned a BS degree in chemistry and biology from Murray State University in 1966 and joined the Paducah Plant in February of that year. He has held postitions as associate chemist, associate engineer and assistant general supervisor. Born in Chicago, Windt and his wife, Sandra, reside on Route 6, Paducah, with their son, Joe.

Thomasson is a graduate of Draughon's Business School. She joined Union Carbide in March, 1975, after doing work as a bookkeeper. She resides on Route 7, Benton, Ky.

Parker has been at the plant since 1956 and has worked as a clerk, engineering aide and relief foreman. Prior to his employment at PGDP, he was employed at Modine Manufacturing in Paducah. He and his wife, Jeanette, reside on Charleston Avenue, Paducah. They have three children, Patricia, Janie and John.

Lanier received a BS degree in business and biology from Murray State University. He was formerly



Lanier

Parker



**Thomasson** 

Windt

employed by Curtin-Matheson Scientific in Canton, Ohio prior to joining the Paducah Plant in 1976. Lanier's wife, Shirley, is a secretary in the plant's Cascade Operations Division. They reside on Route 4, Kevil, Ky., with their son, Alan.

#### Savings Plan-Personal Investment Account

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 76	13.0553	59.2723	8.8166
December 77	14.2017	40.9096	8.0427
July 79	16.2850	38.8933	9.2873
August 79	16.4042	42.3163	9.7902
September 79	16.5240	43.1458	9.8398
		41.1706 *	

\*Dividend reinvestment and stock purchase plan

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 9.1% for 1979. Union Carbide stock values are the average cost of stock purchased during the month. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price of each unit is determined by dividing the total value of the securities by the number of units in the Fund.

## recreationotes. . .

## Bowling League results. . .

UCC Mixed. . .

After six weeks of bowling, the Alley Cats have a one and one-half lead over the Go Getters. The Safe Guards trail by four points. Weekly high scratch scores went to Laura Walker for high game with a 203, Martha Britt for high series of 515 for the women. Bill Johnson took both honors for men rolling a 223/559.

#### K-25 Tuesday. . .

The Shifters have an 18 and one-point lead over the Fearless 5 in the Tuesday Men's League. Weekly high scratch game and series went to M. N. Strickland, of the Fearless 5, rolling a 213/566. R. H. Ford, of the Mishaps, won high handicap game and series with a 263/676.

#### K-25 Wednesday. . .

The Wednesday Men's league is currently lead by Sues Sooners with a five point lead over the Destroyers. F. Horton, Destroyers, rolled the weekly high handicap game of 242. Ernie Bogle, Planners, took the weekly high handicap series rolling a 632.

#### Mixed race set. . .

A Mixed Bowling tournament is being planned for December 1, 2 and 8, 9 at Ark Bowling Lanes, Oak Ridge. Teams will consist of two men and two women and mixed doubles include one of each. Entry fee is \$5 per person per event, and entry forms are available at lanes throughout the area.

Handicap will be figured on 80 percent of a bowler's current average. Entries close November 16. Additional information may be obtained from Maxine Gunter, Oak Ridge telephone 483-8159, or extension 6-3845; or Delmas Lay, 483-3845.

#### ORNL A. . .

The Zots have a substantial lead over the Dynamics in the ORNL "A" League. The Gutterfinks currently hold third position. Weekly prizes went to the Zots for team high handicap series rolling a 2895. Cardwell, Ten Pins, won high handicap series of 645. L. C. Manley, of the Woodchoppers, rolled a 240 high handicap game; Montgomery, of the Limits, won the high scratch game of 208.

#### ORNL C. . .

The Alley Rads have a 15 and onehalf point lead over the Pin Heads in the ORNL "C." Weekly high team handicap series was rolled by the Pin Heads with a 2986. Cable, also of the Pin Heads, won the high handicap series rolling a 642. McCarty, Alley Rads, rolled a 239 winning the weekly high handicap game. Kitts, Hit Men, won the high scratch game with a 210.

#### UCC Monday. . .

The Strike force hold a one point lead over the Roadrunners. Good Luck 4, Four's Company and Free Spirit are all tied for third position. Season high team scratch series is held by Charlies Angels with a 2054. H. W. Kline, also of Charlies Angels, holds the high scratch series for men with a 603. Doris Jackson, of the Four Eagles, holds the high scratch series for women with a 547.

## Skeet League. . .

The Skeet League winners for the month of September were George Kwiencien, ORNL, winning first place shooting a 48.130. Vernon Raaen, ORNL, won second with a 47.877, and Alan VanHull, Y-12, took third with a 47.700.



CHRISTMAS BEAUTIES—Olive (Mrs. James) Morrison displays many of her wreaths and Christmas decorations which will be shown at this weekend's Foothills Craft Guild show. The display, including almost 100 booths, will be at the Oak Ridge Center, and will include handicrafts from many Nuclear Division artisans.

## Division artisans show wares

The Foothills Craft Guild fall show again will feature scores of Nuclear Division craftsmen and their handiwork. The 13th show is set for November 2-4 at the Oak Ridge Civic Center, featuring jewelry, pottery, macrame, metal sculptures, woodworks, textile and fiber creations, candles, toys, Christmas ornaments, leather pieces and arrangements of dried natural materials. Nearly 100 booths will be open for the exhibit.

Guild participants include Jude Martin and her husband Don, ORNL; Nancy Braski (Mrs. Dave, ORNL); Ronald Carroll, an illustrator at Y-12; Jean Cole (Mrs. Thomas E., ORNL); and Helen Ellison (Mrs. John, Y-12).

George Kidd, ORGDP, and his wife, Judy; Evn Sook Kim, (Mrs. Hee J., ORNL); Olive Morrison, (Mrs. James, Y-12); Uldean Osborne, (Mrs. John D., Y-12) and Barbara Pullen, (Mrs. Bill C., Y-12) are feature artists.

Also included in the artists are James Brewer, ORGDP, and his wife,

Jo; David Sampson, Y-12; Peggy Heddleson (Mrs. Fred, Y-12); Sandy Hartman (Mrs. James, Y-12); Betty Emerson, (Mrs. Earl, Y-12; and Everett Bloom, ORNL.

The guild began in 1967 when a group of Oak Ridgers decided there was a need to promote and encourage high standards of workmanship in handicrafts and conduct education programs for those interested.

To become an active member of the guild, a person must submit three items in any one graft category which are judged by the standards committee, the board of directors and the membership as a whole. Each item is judged for workmanship, originality or adherence to original craft, use of materials, design, overall impression and if that item creates too much duplication in a category.

Hours for the show this weekend are 10 a.m. to 9 p.m. Friday, 3 a.m. to 8 p.m. Saturday and 1 to 6 p.m. Sunday.



UNITED WAY EFFORTS—ORNL's Laboratory Protection team efforts resulted in a 37 percent increase in this year's United Way contributions. Seated, from left, are Sammie Horner, Hazel Gilmore, Joyce Beeler and Gerald Johnson. Standing are Bob Atchely, Billy Lawson, Ben Beeler, Charley Benson, James Fritz, John Gillette, Barry Cash, Shields Smith, Wayne Jennings, Larry Gray, United Way coordinator; Ed Humphreys and Harold Rose.

#### APPLICATION FOR TICKETS

Requests MUST Be In By November 17

#### PADUCAH CARBIDE CHILDREN'S CHRISTMAS PARTY

(For Children Ages 2-9)

#### SATURDAY, DECEMBER 8,9 A.M.

(Doors will open at 8:30 a.m.)

ARCADE THEATRE, PADUCAH, KY.

 Name
 Age
 Name
 Age

 Name
 Age
 Name
 Age

Age

NOTE: Fill out form completely and return as soon as possible, but not later than Nov. 17 to the Recreation Office, Union Carbide Corporation, P.O. Box 1410, Paducah, Ky. 42001. Tickets will be mailed to parents at their home addresses.



Finance and Budget's T. Carter

## Carter finds diamond's owner

by Gail Carter

A free \$900 sat openly on top of a desk at ORGDP for almost two years and no one bothered to spend it. The money wasn't in the form of bills, it was a diamond.

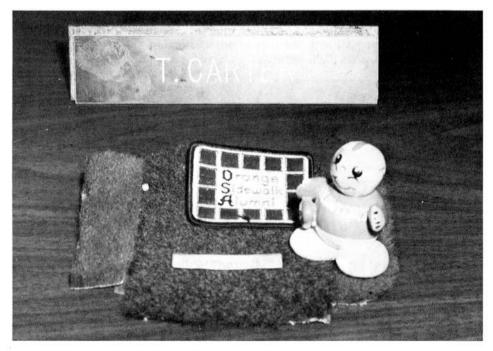
W. T. Carter, Finance and Budget superintendent, found the diamond in his office. "I thought it was just a piece of glass, so I pitched it on top of my desk." A big UT fan, Carter has cuttings of the university's artificial turf and a football player doll sitting on top of his desk. That's where the diamond lay for almost two years. "People were always coming into my office and asking me what it (the diamond) was." Jokingly, Carter would say, "It's my diamond in the rough."

Finally, someone convinced Carter that this "piece of glass" might really be something valuable. So, while on his way to a football game, the superintendent stopped into a jewelry store to have the gem appraised. That's when he found out that for almost two years, a one-half carat diamond worth approximately \$900 sat openly on his desk.

The following Monday, Carter began searching for the owner. "I made announcements in my staff meetings and made several phone calls. Later I got word that the diamond might belong to a former employee." That employee was Linda Goins. Goins still had the ring setting where the diamond belonged. She said the ring had originally cost only \$300. The value of it had tripled in just two years!

Carter said he was happy to return the diamond because of a similar incident that happened to him and his wife, Kathleen, 24 years ago. "We were on our way to work at Carbide and my wife took off her rings to lotion her hands. She laid the rings on her lap, forgot to put them back on, and when she got out of the car, they fell on the ground.

"Shortly afterward, someone found and returned both of them to us," Carter continued. "Sometimes it takes 24 years to repay a good deed, but I'm proud to have repaid this one."



Carter's 'diamond in the rough'

## The Energy Advisor. . .

Editor's Note: Recently we began a series of energy conservation features which will be alternated with questions from readers to the "Energy Advisor" on conservation-related topics. The articles will be written by staff members about their own experiences or research, with ORNL's Merl Baker (alias the Energy Advisor) coordinating the series.

#### by Dennis H. O'Neal Energy Division

Although much of the conservation advice given to the homeowners has focused, quite properly, on the savings inenergy and dollars, from better insulation and the addition of storm doors and windows, there is another strategy that promises an equally significant payoff. It may come as a surprise to many to learn that about 40 percent of the heat loss in an average home is due to air infiltration, or the penetration of unwanted outside air into the living area of a home.

Air infiltration is caused by differences in air pressure between the outside and inside of a home. These pressure differences are generated by temperature variations and wind velocity.

#### Leakage in soleplate

According to a recent study in Texas, the largest contributor to the air infiltration problem was not leakage around the seals or frames in doors and windows, but in the soleplate-the baseboard area of the exterior wall. Air leakage around the soleplate accounted for some 25 percent of the total infiltration in the homes in the study.

Combating this source of heat loss in many homes should not be difficult for the average "do-it-yourselfer." The baseboard molding in each room must be pried away from the exterior walls and the seam where the floor and walls meet must be caulked. One must be careful not to punch a hole in the wall or break the molding as it is pried from the wall. The total cost of this fairly simple project may be a few tubes of caulking, nails, some paint for the baseboards if one is not careful, and a couple of Saturday afternoons.

#### Check outlets

Wall outlets and switches provide another major source of air leakage in homes. This problem is the result of drilling holes in the top plate of walls, particularly inside walls, to allow electric wiring to be run down the walls to outlets and switches. Stopping this leakage requires either sealing the holes in the top plate or stopping the air flow at the outlet or switch.

To seal the holes, climb into the attic, clear ceiling insulation away from the holes and caulk them. Then replace the insulation in its original position. If the attic is filled with fiberglass insulation, it might be advisable for the do-it-yourselfer to wear gloves, goggles, a long-sleeved shirt, work jeans and a breathing mask.

An alternative to climbing into the attic is to make gaskets from closed-cell plastic foam similar to the sheet material used in packing material. The gasket is placed between the outlet and its coverplate. Sealing off the

holes is the more effective of the two methods, however, because the air leakage is attacked at its source.

#### **Duct problems**

A third contributor to air filtration is a poorly built duct system, which will only be found in homes with a forced-air system. Gaps in connected ducts allow unwanted outside air to be pulled directly into the ducting and then into the house. Such problems may be easily corrected with duct tape and a little time.

All these sources of air infiltration could cause heat loss to account for as much as 25 percent of your heating bill. If you're do-it-yourselfer, repairing these problems could require a minimum amount of material (primarily duct tape and caulking) and only a few afternoons of your time. The cost of the materials will probably be repaid within the first two heating months. Eliminating air leakage, and therefore drafts, will also make your home more comfortable, a tangible result that cannot be measured in dollars and cents.

Y-12ers named to new jobs 19 1001





Beck

Nabors

Lynn J. Beck has been named an administrative assistant in the Operating Contractors Project Office; and Roy S. Nabors has been promoted to a safety specialist in Y-12's Employee Relations Division.

Beck, a native of Montgomery, Ala., joined Union Carbide in 1977. Prior to that time, she worked with the University of Tennessee, Incopa Industrials and McDevitt and Street, Inc. She attended Samford University and the University of Tennessee.

She and her husband, Jerry, live at 2315 Round Tree Road, Knoxville. They have a son, Billy.

Nabors, a native of Birmingham, Ala., joined Union Carbide in 1965. Before that time, he served in the U.S. Air Force and worked in the Bank of Knoxville. He gained a BS degree from the University of Tennessee through the Educational Assistance Program.

Mrs. Nabors is the former Beverly Stines, and the couple lives at Route 5, Kingston. They have two sons, Roy and Michael.

## question box. . .

If you have questions on company policy, write the Editor, Nuclear Division News (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used. and you will be given a personal answer if you so desire.

#### **Engraving on watch**

QUESTION: I recently received my. 25-year award from Union Carbide. At the time it was selected I was told that my wife's name could not be engraved on the clock instead of mine. Is this true? And why?

ANSWER: The 25-year award which you received was a gift from the Company to you in recognition of your having completed 25 years' service. Since it is a gift to the employee, the Company does not believe it is appropriate to put any name on the clock or watch other than the name of the employee to whom the gift is given. We are aware of the part that a wife or husband has played during this period, but feel that appreciation of this can be better expressed by the spouse than the Company.

#### Locking exit gates

QUESTION: Has a safety review been made of the practice of locking exit turnstiles between shift changes? Is ORGDP the only plant where this is done?

ANSWER: Yes, safety reviews in regard to emergency egress were made at the UCC-Nuclear Divisionoperated installations before the decision was made to lock selected exit turnstiles between shift changes. This practice occurs at all four installations. Appropriately identified and monitored crash gates are being installed at strategic locations in the perimeter fences to provide for employee exit in the event of an emergency.

#### Illness absences

QUESTION: Where I work, there have been instances of salary increases being deferred because of over 20 days' absence due to sickness. In one case, sickness was under the doctor's care and the individual has been employed over 30 years. Is it Company policy to do this?

ANSWER: It is Company policy to consider absences in connection with salary increases, including absences due to illness. The criterion of 20 work days is used only as a guide for review purposes; it is not applied as a hard and fast rule.

#### Parking illegally

QUESTION: For about six weeks a panel truck has been parked in West Portal with a sailboat attached It has license plates from Washington, D.C. It hinders parking there since it occupies about six parking places. Can something be done to have this removed?

ANSWER: The Y-12 Plant personnel had been aware of this vehicle and boat for many weeks. The owner and/or responsible person had not been identifiable as an employee. A warning was posted on the vehicle that if it were not moved it would be towed away. After a long delay the vehicle was moved without our making direct contact with the owner. The vehicle was, incidentally, from the state of Washington not Washington, D.C.

PH 16-4314



ANTIQUE DISPLAY—Ernest Conrad, ORGDP Fire Department, has a 1795 leather fire water bucket, part of his antique collection now on display in the Cafeteria. He brought his collection in as the plant observed Fire Prevention Month.

## anniversaries ...

#### Y-12 PLANT

#### 35 YEARS

T. J. Bush, Guard Department; and Charles E. Muzzall, Engineering.

#### 25 YEARS

Joseph W. Beever, Richard H. Dean, Charles J. Hickey, Robert V. Walker, Roy J. West, Arver G. Steele Jr., Curtiss R. Gasaway, Carl T. Selvidge, James R. McNabb and Freddie Jeffers.

#### 20 YEARS

Donald O. Carey, Lonzy Heny, Willie A. Wallis, John L. Cadle, Oscar T. Gibson, Raymond E. Johnson and James H. Rose.

#### ORGDP

35 YEARS

Andrew Heflin, Maintenance; William O. Goforth, Maintenance; George H. Miller, Operations; Ruth M. Rigdon, General Accounting; and Barbara E. Srite, Computer Sciences.

30 YEARS

Robert A. Ebel, Robert M. McGill and Charles E. Wilson.

20 YEARS

Frank Patt.

#### ORNL

35 YEARS

Robert S. Lowrie, Environmental Sciences, and Frank Wester Jr., Biology.

25 YEARS

Dale Daniels, Gary H. Coleman, James W. Fox Jr. and Richard D. Seagren.

## T. J. Bush has 35-year perfect record

When T. J. Bush, a security inspector in Y-12's Guard Department, enters the plant today, he will have done so approximately 9,100 times! Nothing remarkable about that. . . but Bush does make it remarkable in other ways. Not once in 35 years has he been absent, tardy, or forgotten his badge.

In addition to a perfect attendance record, 182,000 miles in all types of weather, without incurring a single

accident.

Bush and his wife, the former Mallie Stiner, live at 424 Browder Circle, Oliver Springs. Retirement plans include training bird dogs and catching up on bird hunting.



## UNION

#### UNION CARBIDE CORPORATION

**NUCLEAR DIVISION** P.O. BOX Y, OAK RIDGE, TENNESSEE 37830

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